Appendix C

Operational Checklists and Logs

Dynamic Underground Stripping Electrical Heating Start of Operations Checklist

	Date Techn	ician	Initia
1.	Verify that main circuit breaker i	s locked out.	
2.	Walk the perimeter fence and ve cables, TC wires, pipes, etc.) are c	rify that <u>no</u> metal conductors (ERT rossing the fence line.	
3.	Verify that there is no standing verify boxes. Pump dry if necessity	vater in the electrical heating well sary.	
4.	Verify that the low voltage circui fence) are in the open position.	t breakers (the panel inside the	
5.	Verify that the north and west pe inspect the gate interlock switche	erimeter gates are closed. Visually es to confirm closure.	
6.	Exit the controlled area through to Trailer 4107. Visually inspect the closure.	he man gate on west side next to gate interlock switches to confirm	
<i>7</i> .	Remove the lockout from the cir	cuit breaker.	
8.	Energize the control panel. Usin control panel, close the main circ	g the remote switch located on the uit breaker.	
9.	will open the breaker. Close the	ritch mounted on the control panel breaker using the remote switch ate interlocks. Record results on the	
10.	the access control fence) such tha Observers are there to ensure tha until voltage measurements can b	ouch the fence. Observers must be	
11.	. Open the main circuit breaker, tu	rn off control power, and lock out	

12.	Enter the controlled area and set the appropriate low voltage breakers in the closed position according to the Electrical Heating Well Configuration Log.	
13.	Exit the controlled area through the man gate next to T-4107. Visually inspect the gate interlock switch to confirm closure.	
14.	Remove the lockout from the circuit breaker.	
15.	Notify Security at 2-7225 and Fire Dispatch at 2-7595 that electrical heating operations are about to begin.	
16.	Notify project personnel that the pattern is about to be energized.	
17.	Energize the pattern.	
18.	Project personnel, with the appropriate protective clothing and training as specified in OSP L-52, will conduct a voltage survey of the perimeter fence, nearby structures, buildings, etc. Measurements will be recorded.	
19.	A potential difference of 10 VAC or greater is considered to be a shock hazard and must be eliminated per OSP L-52.	
20.	At the conclusion of testing open the main circuit breaker from the control panel, lock out the breaker (note lock out in the Lockout/Tagout record) and turn control power off.	
NES9	92-384 11-4-92	

Electrical F	leating	Electrod	e Ampe	rage Lo	g	Techn	ician Ini	tial:		Date:		
Breaker #	1	2	3	4	5	6	7	8	9	10	1 1	12
Voltage:					HW-002	HW-002	HW-001	HW-003	HW-003			HW-001
	HW-105	HW-103	HW-104	GIW-814		Deep	Shallow	Deep	Shallow			Deep
Time	ВФ I	СФ 1	ВФ [АФ 1	АФ 1	АФ I	АФ [СФ I	СФ 1	АФ I	СФ 1	АФ I
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Technician Guidelines for Electrical Heating Operations

- 1. All technicians monitoring electrical heating operations must have read and be familiar with OSP L-52. Copies are posted in T-4107.
- 2. Wells to be energized will be specified nightly by Mike Buettner on the Well Configuration Log.
- 3. Prior to beginning electrical heating, the *Pre-electrical Heating Checklist* must be completed.
- 4. Lock and Tag procedures will be used any time it is necessary to go inside the fence. (The main breaker must be locked in the open position). No one is allowed inside the fence with power on.
- 5. Technicians will be responsible for maintaining a written Amperage Log on an hourly basis, in addition to their normal TFF logs.
- 6. On those occasions when it is necessary to wet the electrical heating wells, the Well Wetting Checklist must be followed.
- 7. At the conclusion of electrical heating the Post Electrical Heating Checklist must be completed.
- 8. For TFF system failures or alarms, shut off electrical heating power and lock and tag the main breaker prior to entry into the pattern.
- 9. If the current to the following wells exceeds 300 amperes, shut the power off to all wells and call Mike Buettner (443-9666) or Bill Siegel (447-5404) for directions on how to proceed:

HW-001 deep and shallow HW-002 deep and shallow HW-003 deep and shallow GIW-814 GIW-815

- 10. If the temperature in any well exceeds 800°, shut the power off to all wells and call Mike Buettner (443-9666) or Bill Siegel (447-5404) for directions on how to proceed.
- 11. If the current level drops by 50% from the original values (when the shift started) begin wetting the well. Follow the Well Wetting Procedure.

Pre-electrical Heating Checklist

	Date Technician	Initial
1.	The responsible individual will out the Electrical Heating Well	
	Configuration Log indicating the voltage setting, and the phase setting	
	for the energized wells.	
2.	Verify that the main circuit breaker is locked out.	
3.	Walk the perimeter fence and verify that no metal conductors (ERT	
	cables, TC wires, pipes, etc.) are crossing the fence line and that no	
	other personnel are present in the area. Check inside B-406 and	
	adjacent buildings to verify that no personnel are present.	
4.	Verify that the north and west perimeter gates are closed Visually	
	inspect the gate interlock switches to confirm closure. Place the "Enter	
	through T-4107 Only" signs on the north and east perimeter gates.	
5.	Confirm that there is no standing water in the Christy boxes of the	
	wells to be energized. (Wells to be energized are specified in the Well	
	Configuration Log). If there is water in the boxes remove it prior to	
	the start of electrical heating.	
6.	Verify that steam hoses have not been connected to the steam	
	injection well heads. Verify that instrumentation power to the data	
	acquisition system at each well head is on.	
7.	Set well breaker switches (low voltage panel) to the ON position as	
	specified on the Well Configuration Log. Verify that all other breakers	
	are in the OFF position.	
8.	Exit the controlled area through the man gate on west side next to	
	Trailer 4107. Visually inspect the gate interlock switches to confirm	
	closure.	
9.	Remove lockout from the main circuit breaker. Note removal of	
	lockout on the Lockout/Tagout Record.	
10.	Notify Security at 2-7225 that ground heating operations are about to	
	begin.	
11.	Energize the pattern from the remote switch inside Trailer 4107.	
12.	From outside the perimeter fence, verify that the rotating beacons located at each perimeter gate are working.	

13.	Note amperage levels for each energized well at the beginning of	
	heating and at once per hour thereafter. If the amperage levels for any	
	well are more than 80% less than the other wells, proceed to "Electrical	
	Heating-Well Wetting" checklist.	
14.	At the conclusion of electrical heating, de-energize the well heads by	
	shutting off power at the main circuit breaker via the control panel	
	inside Trailer 4107.	
15.	Complete the Post-Electrical Heating Checklist.	

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Dynamic Underground Stripping Post-electrical Heating Checklist

	Date	Technician	Initia
1.	Shut off power to Trailer 4107.	o the wells using the remote switch located in	
2.	Notify Security a concluded for the	et 2-7225 that electrical heating operations have eday.	
3.		circuit breaker is locked out. Record lockout of the ker on the Lockout/Tagout Log.	
4.		led area and open the switches (the OFF position) e switch panel. Record lockout of circuit breaker in out Log.	
5.	damage, overhea	heating well heads and power cable for signs of ting etc. Notify the Site Safety Manager of ecord any problems below.	
6.	Open the area for	general access by project personnel.	
Ac	lditional Rep	porting:	
NESS	92-387 11-12-92		

Electrical Heating Well Wetting Checklist

	Date Time	Initia
	Note: Operators must wear eye goggles or face shields during the well wetting operation.	
1.	Shut off main heating power via the main circuit breaker remote switch located on the control panel in T-4107.	***************************************
2.	Lockout and tagout the main power circuit breaker.	
3.	Enter the controlled area through the man gate near T-4107.	
4.	Attach the well wetting hose to the well head at the quench port valve.	
5.	If continuous wetting is required, proceed to step 6. If only a measured amount of water is required for wetting, proceed to step 7.	
6.	Attach wetting hoses to the gate valve on the well head. Open the valve so that water runs slowly (~0.3 GPM) into the well from the water reservoir. Note: Water hoses from the water reservoirs must not touch one another or other metal conductors on the surface per OSPL-52. Proceed to step 9 below.	
7.	Turn on the water supply first. Open the quench port gate valve on the well head and allow water to enter the well. Flow rate from the fire hydrant is about ~15 GPM. Wet for 5 minutes (~75 gallons). If amperage levels do not balance or the electrode dries out quickly resulting in reduced conductivity, repeat the well wetting procedure with a greater amount of water. Approximate water added:	
8.	Disconnect the water supply hose from the well head at the completion of wetting.	
9.	Verify that there is no standing water in the Christy box as a result of the well wetting operation.	
10.	Exit the controlled area through the man gate next to T-4107. Make sure the gate interlock switch is closed.	
11.	Remove lockout and tagout of main circuit breaker. Re-energize the wells via the remote switch located in T-4107.	
	Note amperage levels of the wells immediately and hourly thereafter.	

Electrical Heating Well Wetting Configuration Log

Electrical Heating	Phase	Reservoir
Well Id Number	Setting	ID
HW-GP-105	ВФ	
HW-GP-103	СФ	
HW-GP-104	ВФ	
GIW-814	ΑФ	J-13 Tank
HW-GP-002 Shallow	ΑФ	J-13 Tank
HW-GP-002 Deep	ΑФ	J-13 Tank
HW-GP-001 Shallow	ΑФ	J-13 Tank
		West
HW-GP-003 Deep	СФ	Reservoir
		West
HW-GP-003 Shallow	СФ	Reservoir
GIW-815	ΑФ	J-13 Tank
HW-GP-102	ΑФ	
HW-GP-001 Deep	ΑФ	J-13 Tank

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Electrical Heating Well Configuration Log

Date/Time Start: Date/Time Finish: Total Hours Running: Main Power Voltage Setting: Breaker Number Well Id Number Phase Setting Breaker On/Off 1 HW-GP-105 BФ 2 HW-GP-103 СФ 3 HW-GP-104 BФ 4 GIW-814 AФ 5 HW-GP-002 Shallow AФ 6 HW-GP-002 Deep AФ 7 HW-GP-001 Shallow AФ 8 HW-GP-003 Deep CФ 9 HW-GP-003 Shallow CФ 10 GIW-815 AФ 11 HW-GP-102 AФ 12 HW-GP-001 Deep AФ	75 / /77	- <u> </u>						
Total Hours Running: Main Power Voltage Setting: Breaker Number Electrical Heating Well Id Number Phase Setting Breaker On/Off 1 HW-GP-105 BΦ <								
Main Power Voltage Setting: Breaker Number Electrical Heating Well Id Number Phase Setting Breaker On/Off 1 HW-GP-105 BΦ BΦ 2 HW-GP-103 CΦ BΦ 3 HW-GP-104 BΦ BΦ 4 GIW-814 AΦ AΦ 5 HW-GP-002 Shallow AΦ AΦ 6 HW-GP-002 Deep AΦ AΦ 7 HW-GP-001 Shallow AΦ AΦ 9 HW-GP-003 Shallow CΦ AΦ 10 GIW-815 AΦ AΦ 11 HW-GP-102 AΦ	Date/Tin	Date/Time Finish:						
Breaker Number Electrical Heating Well Id Number Phase Setting Breaker On/Off 1 HW-GP-105 BФ BФ 2 HW-GP-103 СФ BФ 3 HW-GP-104 BФ BФ 4 GIW-814 AФ AФ 5 HW-GP-002 Shallow AФ AФ 6 HW-GP-002 Deep AФ AФ 7 HW-GP-001 Shallow AФ AФ 9 HW-GP-003 Deep CФ CФ 10 GIW-815 AФ AФ 11 HW-GP-102 AФ AФ	Total Ho	urs Running:						
Number Well Id Number Setting Breaker On/Off 1 HW-GP-105 BΦ 2 HW-GP-103 CΦ 3 HW-GP-104 BΦ 4 GIW-814 AΦ 5 HW-GP-002 Shallow AΦ 6 HW-GP-002 Deep AΦ 7 HW-GP-001 Shallow AΦ 8 HW-GP-003 Deep CΦ 9 HW-GP-003 Shallow CΦ 10 GIW-815 AΦ 11 HW-GP-102 AΦ	Main Pov	ver Voltage Setting:						
1 HW-GP-105 BΦ 2 HW-GP-103 CΦ 3 HW-GP-104 BΦ 4 GIW-814 AΦ 5 HW-GP-002 Shallow AΦ 6 HW-GP-002 Deep AΦ 7 HW-GP-001 Shallow AΦ 8 HW-GP-003 Deep CΦ 9 HW-GP-003 Shallow CΦ 10 GIW-815 AΦ 11 HW-GP-102 AΦ			Phase					
2 HW-GP-103 CФ 3 HW-GP-104 BФ 4 GIW-814 AФ 5 HW-GP-002 Shallow AФ 6 HW-GP-002 Deep AФ 7 HW-GP-001 Shallow AФ 8 HW-GP-003 Deep CФ 9 HW-GP-003 Shallow CФ 10 GIW-815 AФ 11 HW-GP-102 AФ	Number	Well Id Number	Setting	Breaker On/Off				
3 HW-GP-104 BΦ 4 GIW-814 AΦ 5 HW-GP-002 Shallow AΦ 6 HW-GP-002 Deep AΦ 7 HW-GP-001 Shallow AΦ 8 HW-GP-003 Deep CΦ 9 HW-GP-003 Shallow CΦ 10 GIW-815 AΦ 11 HW-GP-102 AΦ	1	HW-GP-105	ВФ					
4 GIW-814 AФ 5 HW-GP-002 Shallow AФ 6 HW-GP-002 Deep AФ 7 HW-GP-001 Shallow AФ 8 HW-GP-003 Deep CФ 9 HW-GP-003 Shallow СФ 10 GIW-815 AФ 11 HW-GP-102 AФ	2	HW-GP-103	СФ					
5 HW-GP-002 Shallow AΦ 6 HW-GP-002 Deep AΦ 7 HW-GP-001 Shallow AΦ 8 HW-GP-003 Deep CΦ 9 HW-GP-003 Shallow CΦ 10 GIW-815 AΦ 11 HW-GP-102 AΦ	3	HW-GP-104	ВФ					
6 HW-GP-002 Deep AФ 7 HW-GP-001 Shallow AФ 8 HW-GP-003 Deep СФ 9 HW-GP-003 Shallow СФ 10 GIW-815 AФ 11 HW-GP-102 AФ	4	GIW-814	ΑФ					
7 HW-GP-001 Shallow AФ 8 HW-GP-003 Deep СФ 9 HW-GP-003 Shallow СФ 10 GIW-815 AФ 11 HW-GP-102 AФ	5	HW-GP-002 Shallow	ΑФ					
8 HW-GP-003 Deep СФ 9 HW-GP-003 Shallow СФ 10 GIW-815 AФ 11 HW-GP-102 AФ	6	<u> </u>	ΑФ					
9 HW-GP-003 Shallow СФ 10 GIW-815 AФ 11 HW-GP-102 AФ	7		ΑФ					
10 GIW-815 AФ 11 HW-GP-102 AФ	8		СФ					
11 HW-GP-102 AФ	9	HW-GP-003 Shallow	СФ					
12 IIIA/ CD 001 D	10	GIW-815	ΑФ					
12 HW-GP-001 Deep AФ	11	HW-GP-102	ΑФ					
	12	HW-GP-001 Deep	ΑФ					

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Electrical Heating Voltage Change Log

		0	0 0
Date	Technician Initial	Main Power Transformer Output Voltage Setting	Under voltage Relay Transformer Input Voltage Setting
		_	

Note: Main power transformer output voltage and under voltage relay transformer input voltage <u>must</u> be the same.

Electrical Heating Interlock Maintenance Checklist

Date	Emergency Kill Switch (T-4107)	West Gate Interlock	North Gate Interlock	East Gate Interlock	Initial
Start of Operations					
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Interlocks shall be tested weekly. For interlock testing the electrical heating power circuit will be energized up to and including the main circuit breaker only. <u>Do not energize</u> the well heads for interlock testing. NES92-388 11-4-92

Lockout/Tagout Log

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Item Name or Description	Reason for Lockout/Tagout	Date/Time	Initial
Description	Reason for Lockout/ Tagout	Applied/Removed	mmai
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NES92-390 11-17-92

Steam Injection Boiler Maintenance Log

Blowdown (End of	Low Water Cutoff (Day	Low Pres. Gas Cutoff	High Pres. Gas Cutoff	High Limit Cutoff
Each Shift)	Shift Only)		(Monthly)	(Monthly)
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	(End of	(End of Shift Only) Cutoff (Day Shift Only) Cutoff (Day Shift Onl	(End of Each Shift) Cutoff (Day Shift Only) Gas Cutoff (Monthly) Image: Control of Each Shift) Image: Control of Each Shift Only) Image: Control of Each Shift Only) Image: Control of Each Shift) Image: Control of Each Shift Only) Image: Control of Each Shift Only) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of Each Shift) Image: Control of	(End of Each Shift) Cutoff (Day Shift Only) Gas Cutoff (Monthly) (Monthly) Cutoff (Day Shift Only) Gas Cutoff (Monthly) Gas Gas Gutoff (Monthly) Gas Gas Gutoff (Monthly) Gas Gas Gutoff (Monthly) Gas

NES92-394 11-4-92

Steam Injection Well Configuration Log

Technician:	Date:
	Well Open or
Well Number	Closed
GIW-813 Upper	
GIW-813 Lower	
GIW-814 Upper	
GIW-814 Lower	
GIW-815 Upper	
GIW-815 Lower	
GIW-818 Upper	
GIW-818 Lower	
GIW-819 Upper	
GIW-819 Lower	
GIW-820 Upper	
GIW-820 Lower	

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Dynamic Underground Stripping Project-Boiler Operations Log

Dynamic C								
Time/Data	Water Meter		Flue Gas	Feed Water	Inlet Gas	Softener	Tmia! = 1	C
Time/Date	Reading	Pressure	1emp. F	1emp, 'F	Pressure	Regenerating	Initial	Comments
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Total Gal Steam Made		Additional	Commen	ts:				
Ave. Gal/Hr. Steam								
Lb/Hr. Steam					**************************************			
(Factor *8.32823)						······································		
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Dynam	ic Undergro	und Stripping	Project-Steam	Wellhead	Operations	Logi	Page 1
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Dynamic Onderground Stripping Project-Steam Wennead Operations Log. Page 1												
	GIW		GIW	-813				W-814 GIW-815		-815	GIW-815	
	(Upper	Zone)	(Lower	Zone)	(Upper	Zone)		Zone)	(Upper	Zone)		Zone)
	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F
Time/Date	Psi	۰F	Psi	۰F	Psi	٥F	Psi	٥F	Psi	۰F	Psi	°F
												
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Dynamic Underground Stripping Project-Steam Wellhead Operations Log: Page 2

<u> </u>	Dynamic Onderground Stripping Project-Steam Wermead Operations Log: Page 2												
		GIW	-818	GIW	-818	GIW-819 GIW-			V-819 GIW		V-820 GIW-820		-820
i	<u> </u>		Zone)	(Lower	Zone)	(Upper	Zone)	(Lower	Zone)	(Upper	Zone)	(Lower	Zone)
		Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp. °F	Pres.	Temp.
L	Time/Date	Psi	°F	Psi	°F	Psi	°F	Psi	°F	Psi	°F	Psi	Temp. °F
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Time/Date	Ex. Well GEW-808 Vapor Temp.	Ex. Well GEW-816 Vapor Temp. °F	Ex. Well GSW-16 Vapor Temp. °F	Combined Ex. Well Vapor Temp. °F	Post Condenser Vapor Temp. °F	Total Vapor Condensate Volume Gallons	Vapor Condensate Rate GPM	Extracted Liquid Volume Gallons	Ex. Liquid Rate GPM	Ex. Liquid Temp. °F
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NES93-013 1-28-93

Well Temperature Log

	Date:			Time:					
CH#	Name	Depth	CH#	Name	Depth	CH	Name	Depth	
1	Reference	N/A	12	TEP-003 #2	110'	2	3 TEP-006 #1	130'	
2	Blank	N/A	13	TEP-003 #3	95'	2	4 TEP-006 #2	110'	
3	TEP-001 #1	130'	14	TEP-003 #4	80'	- 2	5 TEP-006 #3	95'	
4	TEP-001 #2	110'	15	TEP-004 #1	130'		6 TEP-006 #4	80'	
5	TEP-001 #3	95'	16	TEP-004 #2	110'		7 TEP-007 #1	130'	
6	TEP-001 #4	80'	17	TEP-004 #3	95'	2	8 TEP-007 #2	110'	
7	TEP-002 #1	130'	18	TEP-004 #4	80'	2	9 TEP-007 #3	95'	
	TEP-002 #2	110'	19	TEP-005 #1	130'	3	0 TEP-007 #4	80'	
	TEP-002 #3	95'		TEP-005 #2	110'	3	1 TEP-008 #1	130'	
	TEP-002 #4	80'		TEP-005 #3	95'	3	2 TEP-008 #2	110'	
11	TEP-003 #1	130'	22	TEP-005 #4	80'	3	3 TEP-008 #3	95'	
34	TEP-008 #4	80'	45	TEP-011 #3	95'		6 GIW-815 #1	122.5'	
	TEP-009 #1	130'	46	TEP-011 #4	80'		7 GIW-815 #2	107'	
36	TEP-009 #2	110'	47	BLANK	N/A	5	8 GIW-815 #3	87'	
	TEP-009 #3	95'		GIW-813 #1	117'		9 GIW-815 #4	Surf.	
	TEP-009 #4	80'		GIW-813 #2	94'	- 6	0 GIW-818 #1	131'	
	TEP-010 #1	130'		GIW-813 #3	77'	6	1 GIW-818 #2	115'	
	TEP-010 #2	110'		GIW-813 #4	Surf.	1	2 GIW-818 #3	92'	
	TEP-010 #3	95'		GIW-814 #1	131'	(3 GIW-818 #4	Surf.	
	TEP-010 #4	80'	53	GIW-814 #2	115'	6	4 GIW-819 #1	131'	
	TEP-011 #1	130'		GIW-814 #3	96.5	- 6	5 GIW-819 #2	113'	
44	TEP-011 #2	110'	55	GIW-814 #4	Surf.	6	6 GIW-819 #3	88.6	·

Well Temperature Log (Continued)

	Date:				Time:					
67	GIW-819 #4	Surf.		<i>7</i> 8	H-001 #6	73'	8	9 H-003 #1	100'	
68	GIW-820 #1	122'		79	H-001 #7	60'	9	0 H-003 #2	97'	
69	GIW-820 #2	95'		80	H-001 #8	15'	9	1 H-003 #3	73'	
70	Blank	N/A		81	H-002 #1	100'	9	2 H-003 #4	60'	
71	Blank	N/A		82	H-002 #2	97'	9	3 H-003 #5	15'	
72	Blank	N/A		83	H-002 #3	73'	9	4 H-003 #6	73'	
73	H-001 #1	100'		84	H-002 #4	60'	9	5 H-003 #7	60'	
74	H-001 #2	97'		85	H-002 #5	15'	9	6 H-003 #8	15'	
75	H-001 #3	73'		86	H-002 #6	73'	9	7 Blank	N/A	N/A
76	H-001 #4	60'		87	H-002 #7	60'	9	8 AMM #1	N/A	N/A
77	H-001 #5	15'		88	H-002 #8	15'	9	9 AMM #2	N/A	N/A
100	AMM#3	N/A	N/A	111	GIW-813 U	mVolts	12	2 GIW-820 L	mVolts	
101	AMM#4	N/A	N/A	112	GIW-813 L	mVolts	12	3 Blank	N/A	
102	AMM #5	N/A	N/A	113	GIW-814 U	mVolts	12	4 SeaMist #1		
103	AMM #6	N/A	N/A	114	GIW-814 L	mVolts	12	5 SeaMist #2		
104	AMM #7	N/A	N/A	115	GIW-815 U	mVolts	12	6 Blank	N/A	
105	AMM#8	N/A	N/A	116	GIW-815 L	mVolts	12	7 Blank	N/A	
106	AMM #9	N/A	N/A	117	GIW-818 U	mVolts	12	8 Blank	N/A	
107	AMM #10	N/A	N/A	118	GIW-818 L	mVolts	12	9 Blank	N/A	
108	AMM #11	N/A	N/A	119	GIW-817 U	mVolts	13	0 Blank	N/A	
109	AMM #12	N/A	N/A	120	GIW-817 L	mVolts	13	1 Blank	N/A	
110	Blank	N/A	N/A	121	GIW-820 U	mVolts	13	2 Blank	N/A	